Cover Page for Module (Standards for Mathematical Practice)

Standards for Mathematical Practice

Module One:	Standards for Mathematical Practice		
Approximate Time:	6 hours		
Purpose:	To familiarize teachers with the Standards for Mathematical Practice. To build a sense of community among institute participants.		
CCSSM Content	Modeling with Mathematics		
Connections to other modules			
Big Ideas of Module	Team Building, Understanding the Standards for Mathematical Practice		
Materials for Module	Instructions for Name Tag Glyph, Copies of Maps Activity, Name tents, markers, Index cards, Pens, Pencils, Chart paper, Post it notes.		
Activities and time:	Problem of the day, 1 st day Name Tag Glyph, 2 Truths and a Lie, Standards for Mathematical Practice Poster Creation and Gallery Walk, Modeling Activity: Maps, Myths, and Misrepresentations		
Problem of the Day	Make and use a drawing or model: A cricket and a flea decided to hop up a set of stairs. The flea takes 2 steps in one hop. The cricket takes 3 steps in one hop. The set of stairs has 12 steps. Which steps will both the cricket and the flea land on? Which steps do neither of them land on?		

Activity One: 1st Day Name Tag Glyph (30 minutes)

Instructor Talking Points	Participants	Materials
Instructor provides copies of	Read and follow directions to	Name tents,
instructions for Name Tag Glyph to	complete a name tent. Meet	markers, directions
participants.	another participant and	
	introduce them to the group.	

Activity Two: Two Truths and a Lie (20 minutes)

Instructor Talking Points	Participants	Materials
Instructor explains the instructions for	Each person fills out an index	Index cards,
the 2 truths and a lie activity	card with three statements	Pens.
	about themselves, one of	Pencils

which will be false. Participants
share their cards with everyone
else in the class. Other
participants try to identify the
statement that is a lie.
Participants share with the
class which of their statements
is a lie.

Activity Three: Standards for Mathematical Practice (105 minutes)

Instructor Talking Points	Participants	Materials
Instructor passes out copies of the	Create posters about one of the 8	Chart paper
CaCCSS Standards for Mathematical	Standards for Mathematical	Markers
Practice.	Practice.	Post it notes.
Instructor organizes participants into 8	Do a gallery walk and provide	
groups.	feedback on each of the posters.	
Instructor assigns 1 Standard for	Share their thoughts about the	
Mathematical Practice to each group.	Standards.	
Instructor has each group create a poster		
paraphrasing the standard and providing		
an example.		

Activity Four: Maps, Myths, and Misrepresentations (120 minutes)

Instructor Talking Points	Participants	Materials
The instructor passes out copies of the	Participants determine the	Mercator Maps
Mercator Map and the Map Activity	areas of several countries and	Centimeter cubes
handout.	continents using the Mercator	Centimeter Graph
The instructor informs the group of the	map.	Paper
area in square miles of Mexico and asks the	Participants share their results	Rulers
participants to use that information, the	and calculation strategies with	Activity Worksheets
map, and other materials available to	the rest of the class.	
calculate the area of other countries and	Participants discuss the	
continents.	reasons and consequences of	
The instructor asks groups to report out	map distortions.	
their results from the calculation of areas.		
The instructor reveals the actual areas of		
the countries and continents.		
The instructor leads a discussion about		
participant reaction to maps activity.		

Activity Five: Journal Write (15 minutes)

Instructor Talking Points		Participants	Materials
•	Instructor provides a journal prompt about	Participants respond to a journal	Journals

implementation of the Common Core	prompt about implementation of	
•	the Common Core Standards	
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